THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE AS FOLLOWS:

- 1. A crystalline form of azithromycin \bullet (H₂O)_x \bullet [isopropanol]_y wherein x and y are selected from
 - (i) x = 0.75 and y = 0.5, and
 - (ii) x = 1.5 and y = 0.25.
- 2. Crystalline Azithromycin Isopropanolate of claim 1 wherein x = 1.5 and y = 0.25.
- 3. Crystalline Azithromycin Isopropanolate of claim 1 wherein x = .75. and y = 0.5.
- 4. The crystalline form of Azithromycin $(H_2O)_x$ [isopropanol]_y having the single crystal structure of Figure 1(a) wherein x = 0.75 and y = 0.5.
- 5. The crystalline form of Azithromycin $(H_2O)_x$ [isopropanol]_y having the single crystal structure of Figure 1(b) wherein x = 1.5 and y = 0.25.
- 6. A process for the preparation of the azithromycin $(H_2O)_x$ [isopropanol]_y wherein x and y are selected from
 - (i) x = 0.75 and y = 0.5, and
 - (ii) x = 1.5 and y = 0.25

which process comprises the following steps:

(a) dissolving solid azithromycin in an acetic acid solution and extracting the solution with ethyl acetate;

- (b) basifying the aqueous solution from step (a) with a sodium hydroxide solution;
 - (c) extracting the basic solution from step (b) with ethyl acetate;
- (d) drying the ethyl acetate solution from step (c) with sodium sulfate, filtering the drying agent and evaporating the filtrate under vacuo to give non-crystalline azithromycin as a syrup;
- (e) co-evaporating the material from step (d) with isopropanol three times to give a syrup;
 - (f) mixing the material from step (e) with isopropanol;
 - (g) adding water to the material from step (f);
- (h) filtering the insoluble material from step (g) and drying under vacuo;
- (i) dissolving the material from step (h) in isopropanol and adding water in the ratio of either:
- (ia) isopropanol to water in the order of (1-2): 1 where x = 1.5 and y = 0.25, or
- (ib) in the ratio of isopropanol to water in the order of 4:1 where x = 0.75 and y = 0.5;
 - (j) filtering the insoluble material from step (i).
- 7. A process for the preparation of the azithromycin $(H_2O)_x$ [isopropanol]_y of claim 2 wherein x = 1.5 and y = 0.25 which comprises the following steps:
- (a) dissolving solid azithromycin in an acetic acid solution and extracting the solution with ethyl acetate;
- (b) basifying the aqueous solution from step (a) with a sodium hydroxide solution;
 - (c) extracting the basic solution from step (b) with ethyl acetate;

- (d) drying the ethyl acetate solution from step (c) with sodium sulfate, filtering the drying agent and evaporating the filtrate under vacuo to give non-crystalline azithromycin as a syrup;
- (e) co-evaporating the material from step (d) with isopropanol three times to give a syrup;
 - (f) mixing the material from step (e) with isopropanol;
 - (g) adding water to the material from step (f);
- (h) filtering the insoluble material from step (g) and drying under vacuo;
- (i) dissolving the material from step (h) in isopropanol and adding water wherein the ratio of isopropanol to water is in the order of (1-2):1;
 - (j) filtering the insoluble material from step (i).
- 8. A process for the preparation of the azithromycin \bullet (H₂O)_x \bullet [isopropanol]_y of claim 3 wherein x = 0.75 and y = 0.5 which comprises the following steps:
- (a) dissolving solid azithromycin in an acetic acid solution and extracting the solution with ethyl acetate;
- (b) basifying the aqueous solution from step (a) with a sodium hydroxide solution;
 - (c) extracting the basic solution from step (b) with ethyl acetate;
- (d) drying the ethyl acetate solution from step (c) with sodium sulfate, filtering the drying agent and evaporating the filtrate under vacuo to give non-crystalline azithromycin as a syrup;
- (e) co-evaporating the material from step (d) with isopropanol three times to give a syrup;
 - (f) mixing the material from step (e) with isopropanol;
 - (g) adding water to the material from step (f);

- (h) filtering the insoluble material from step (g) and drying under vacuo;
- (i) dissolving the material from step (h) in isopropanol and adding water wherein the ratio of isopropanol to water is in the order of 4:1;
 - (j) filtering the insoluble material from step (i).
- 9. A process for the preparation of the azithromycin \bullet (H₂O)_x \bullet [isopropanol]_y of claim 4 wherein x = 0.75 and y = 0.5 which comprises the following steps:
- (a) dissolving solid azithromycin in an acetic acid solution and extracting the solution with ethyl acetate;
- (b) basifying the aqueous solution from step (a) with a sodium hydroxide solution;
 - (c) extracting the basic solution from step (b) with ethyl acetate;
- (d) drying the ethyl acetate solution from step (c) with sodium sulfate, filtering the drying agent and evaporating the filtrate under vacuo to give non-crystalline azithromycin as a syrup;
- (e) co-evaporating the material from step (d) with isopropanol three times to give a syrup;
 - (f) mixing the material from step (e) with isopropanol;
 - (g) adding water to the material from step (f);
- (h) filtering the insoluble material from step (g) and drying under vacuo;
- (i) dissolving the material from step (h) in isopropanol and adding water wherein the ratio of isopropanol to water is in the order of 4:1;
 - (j) filtering the insoluble material from step (i).

- 10. A process for the preparation of the azithromycin \bullet (H₂O)_x \bullet [isopropanol]_y of claim 5 wherein x = 1.5 and y = 0.25 which comprises the following steps:
- (a) dissolving solid azithromycin in an acetic acid solution and extracting the solution with ethyl acetate;
- (b) basifying the aqueous solution from step (a) with a sodium hydroxide solution;
 - (c) extracting the basic solution from step (b) with ethyl acetate;
- (d) drying the ethyl acetate solution from step (c) with sodium sulfate, filtering the drying agent and evaporating the filtrate under vacuo to give non-crystalline azithromycin as a syrup;
- (e) co-evaporating the material from step (d) with isopropanol three times to give a syrup;
 - (f) mixing the material from step (e) with isopropanol;
 - (g) adding water to the material from step (f);
- (h) filtering the insoluble material from step (g) and drying under vacuo;
- (i) dissolving the material from step (h) in isopropanol and adding water wherein the ratio of isopropanol to water is in the order of (1-2):1;
 - (j) filtering the insoluble material from step (i).
- 11. A crystalline form of azithromycin $(H_2O)_x$ [isopropanol]_y wherein x = 0.75 and y = 0.5 or x = 1.5 and y = 0.25 made by the process of claim 6, 8 or 9 if x = 0.75 and y = 0.5 and by the process of claim 6, 7 or 10 if x = 1.5 and y = 0.25.
- 12. A crystalline form azithromycin isopropanolate of claim 1 wherein x = 1.5 and y = 0.25 made by the process of claim 6, 7 or 10.

- 13. A crystalline form of azithromycin isopropanolate of claim 1 wherein x = 0.75 and y = 0.5 made by the process of claim 6, 8 or 9.
- 14. A crystalline form of azithromycin $(H_2O)_{0.75}$ [isopropanol]_{0.5} having the single crystal structure of Figure 1(a) made by the process of claim 9.
- 15. A crystalline form of azithromycin $(H_2O)_{0.75}$ [isopropanol]_{0.5} having the single crystal structure of Figure 1(b) made by the process of claim 10.
- 16. A crystalline form of azithromycin \bullet (H₂O)_{0.75} \bullet [isopropanol]_{0.5} having the single crystal structure of Figure 1(a).
- 17. A crystalline form of azithromycin (H₂O)_{0.75} [isopropanol]_{0.5} having the single crystal structure of Figure 1(b).